

Description

24Q Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

Features

Rapid interruption of excessive current Compatible with reflow and wave solder One time positive disconnect Lead Free and Halogen free material

Agency Approvals.

Safety	Agency	Ampere Range
Agency	File Number	Volt@I.R.ABILITY
c 711 °us	E485357	

Electrical Characteristics for Series

Rating Current	100% of Ampere Rating	300% of Ampere Rating
25A~60A	4 Hour, Min.	5Sec., Max.

Electrical Characteristic Specifications by Item

Part No.	Rated Voltage	Rated Current	Breaking Capacity (A)	Melting Integral 10In min(A ² S)	Alpha Mark	Nominal Cold Resistance(m Ω)	Approvals cURus
24Q2250		25A	500A@72V DC	380	25	2.1	•
24Q2300	72VDC	30A		540	30	1.1	•
24Q2400		40A		960	40	0.71	•
24Q2500		50A	2004@72V DC	1050	50	0.65	•
24Q2600		60A	300A@72V DC	1250	60	0.55	•

^{*} DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

^{*} DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

6125 Fast-Acting SMD Fuses

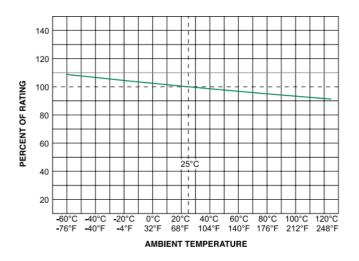




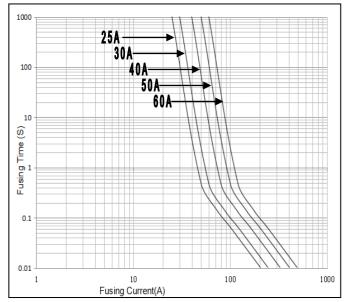


Temperature Re-rating Curve

- *Normal ambient temperature: $23\pm3^{\circ}$ C
- *Operating temperature: -55 ~+125°C, with proper correction factor applied

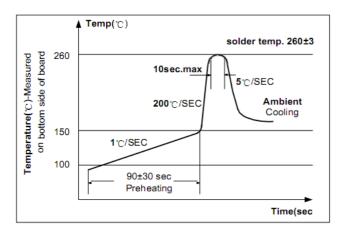


Average Time Current Curves



Soldering Parameters

Reflow Condition		Pb-Free assembly	
	-Temperature Min(T _{s(min)})	150℃	
Pre Heat	-Temperature Max(T _{s(max)})	200℃	
	-Time (Min to Max)(t _s)	60-180 secs	
Average ramp up rate	5℃/second max		
Ts(max)to T _L Ramp-u	Ts(max)to T _L Ramp-up rate		
Reflow	-Temperature(TL)(liquidus	217℃	
	-Temperature(t _L)	60-150 seconds	
Time within 5℃ of act	Time within 5℃ of actual peak Temperature(t _p)		
Ramp-down Rate	Ramp-down Rate		
Time 25℃ to pesk Temperature (T _p)		8 minutes Max.	
Do not exceed		260℃	









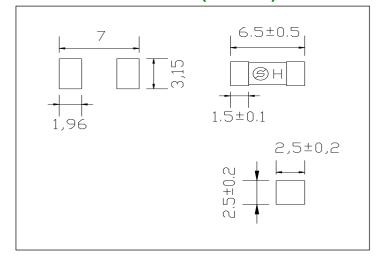


Product Characteristics

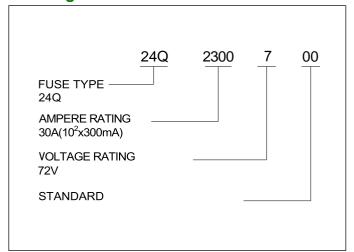
Materials	Body: Ceramic Terminations: Gold-plated Caps	
Product Marking	Brand, Amperage Rating	
Operating Temperature	-55°C to 125°C	
Moisture Sensitivity Level	Level 1, J-STD-020	
Solderability	MIL-STD-202, Method 208	
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum)	

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C to 125°C, 15 minutes @ each extreme		
Mechanical Shock	MIL-STD-202, Method 213, Test I: Deenergized. 100G's pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks		
Vibration	MIL-STD-202, Method 201: 0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs		
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles		
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48hrs)		
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test condition B (10 sec at 260°C)		

Mechanical Dimensions (Unit:mm)



Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity
24Q	tape-and-reel	1000pcs